Attachment E – Resolved Discrepancy Reports

The following SIMSS Discrepancy Reports have been fixed in SIMSS Release 5. The table includes the DR Number, Description, and Severity. The detailed DR information is available in SIMSS CM tool StarTeam.

Summary of Fixed Discrepancy Reports

High	Medium	Low	Total
2	14	14	30

DR	Description	Severity
135	Multiple projects need to be supported.	Low
286	Serial Input requires the entire command, including post-amble, to come in before it is passed to the TDM Command Ingest module. This can cause long delays in command verification, especially when multiple commands are sent. This would cause telemetry verification failures. This needs to be redesigned to detect the preamble and spacecraft sync (barker code). It should then pass a defined number of bits (individual command length) to the command ingest module. The command ingest module should verify the commands. If it detects an error or it detects postamble, it should tell the serial input module to reset and start looking for preamble and sync. (R4IT-DR22).	High
287	Configured Command Ingest for no postamble (0 length). Received the following message. 047:14:21:07 Proj 0 TDMCmdIngest DLL: Warning: Could not find the Postamble Sequence, should be: (hex) Since there was no postamble, this message should not have occurred. (R4ITDR-23).	Low
294	Channel 2 in GenTlm outputs one frame and quits when connected to serial output modules.	Low
310	(Encoding) DR26-1: The module does not properly CRC encode the data stream. There is a fix for this problem but has to be incorporated into this release (R4IT-DR37).	Medium
314	SIMSS modules can not be cleaned-up when the project disconnected if the project is restored from the previous save.	Low
315	Set directive w = & no value causes crash.	Medium
316	Event log messages contain extraneous characters.	Low
318	The Cancel button or window exit does not prevent project restore if any file was clicked - should not restore project.	Low
322	The mnemonic field in the TDM ASCII database should be increased to a maximum of 10 chars.	Medium
323	Apparently fixing DR 315 caused the intermediate variables, A thru Z, to become unavailable. Scenario scripts using these variables no longer work properly.	Low
324	When module is removed from the project and added another module to its place, the reverse link was not cleaned-up. It causes up-link messages (e.g. 9002) go to the deleted DLL and crashes server.	Medium
326	For GenTlm, the APID in fill packets is set to 0x3FF. Blue Book 102.0 B-5, dated 11/2000, says that the APID should be 0x7FF.	Low
327	For GenTlm, using error control field = false, RS size = 32 , cmdChannel = true, and WHOLEVCDU = false, the CLCW appeared at byte 188 in the middle of the last packet, followed by the rest of the packet, the fill packet, 4 bytes of	Medium

	zeroes where the CLCW should have.	
328	For GenTlm, using error control field = false, RS size = 32 , cmdChannel = true, and WHOLEVCDU = false, there were 20 bytes of zero prior to RS that should have been 0xC9.	Low
329	For GenTlm, VCDU Error Control field is being placed at the end of the 32 byte RS field rather than at the end of the data.	Medium
330	For GenTlm, the fill CADU is not being completely filled with 0xC9, the fill character.	Medium
331	For GenTlm, using WHOLEVCDUS=FALSE and CROSSPACKETS=FALSE, received telemetry with dropped packets and packet sequence numbers out of order. It appears that packets are being held somewhere and then released all at once. Telemetry is useless.	Medium
332	For GenTlm, secondary headers (SH) were not implemented yet the P-field and Epoch Sec fields in the Packet Header display are still enabled and contain erroneous data that appears to have been extracted from the 8 bytes following the primary header	Low
333	For GenTlm, using WHOLEVCDUS=TRUE, CROSSPACKETS=FALSE, every time a fill packet gets added to complete a VCDU, the sequence number of the next packet for the last APID increments by one. Tried with 2 APIDs, 1 short and 1 long. The long packet never appeared in the telemetry. Looks like a packet is being dropped.	Medium
334	For GenTlm, using WHOLEVCDUS=TRUE, CROSSPACKETS= FALSE, every data CADU started with a new packet. The MPDU, however, pointed to the start of the second packet.	Medium
335	For GenTlm, all APIDs are enabled when the simulator starts. Requires a scenario to be run to turn them off.	Low
336	For GenTlm, when an APID is enabled using the Control Packet display, the interval for that packet is set to .01 even though the interval field is dimmed. Locks up the simulator.	Medium
337	For GenTlm, invalid secondary header data is being displayed on the Display Packet panel even though secondary headers were not implemented	Low
342	The GenTlm module caused a system crash when doing a save and restore.	Medium
344	TestModule's tick has about 10% error in timing.	Medium
345	For TDMCmdGen, if the first time we accidentally loaded (click 'Load Seq' button to load)the '.bin' version of a saved sequence file (or simply try to load a file that name was not existed, the SIMSS would generate error event messages); the second time we try to load (use 'Load Seq' button to load) a saved sequence file, it would be no reaction (no any commands were shown on the list), even though we did everything right; the third time we try to load (use 'Load Seq' button to load) the saved sequence file again, those commands that were saved in the file would be shown on the list.	Low
346	For TDMCmdGen, create a project, load a saved sequence file, wait until the commands are shown on the list, try to 'Edit' one command (86 01 00 00 00 00, 6 bytes) on the list, for instance, add one more byte on the end of the sequence, this command should be 7 bytes; but the 'Size:' was shown 1 byte.	Low
347	For TDMCmdGen, if we 'Edit' too many bytes for a command sequence, the GUI does not allow us to delete any byte from the sequence (the GUI will throw an exception if we try to delete any byte and then click the 'Apply' button); also if we 'Edit' an invalid character the GUI will throw an exception too.	Medium
348	For TDMCmdGen. if we do not exactly follow instructions of Test Case 1 to test, for instance, we configure the 'Preamble' (ff, 16), 'Barker Code' (f2), 'Postamble' (ff, 2) and set the 'Hamming Encoding' on, then 'Insert'one command (but forget to 'Edit' it), the SIMSS' server will crash if we click the 'Apply' button, then try to 'Send Seq'.	High